

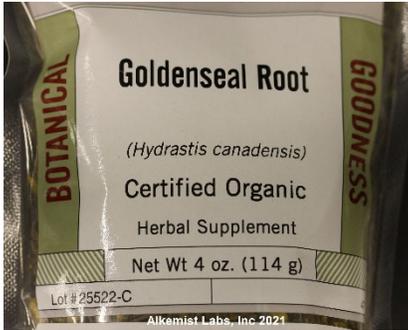
Certificate Issued To:  
**Mountain Rose Herbs**  
12661 Hoover St  
Garden Grove, CA 92841  
USA



Work performed at:  
**Alkemist Labs**  
12661 Hoover Street  
Garden Grove, CA 92841  
714-754-HERB (4372)  
sales@alkemist.com

**Certificate of Analysis: Goldenseal Root (25522-C)**  
Microscopy with Digital Photo-Documentation

1



2



3



Company Name: Mountain Rose Herbs  
Title: Goldenseal Root  
Plant Part: Root  
Sample Received: 8/3/2021  
Sample Description: Clear Reclosable Plastic Bag  
Form of Botanical: whole/dry  
Appearance: (1) Yellow/Brown Pieces  
Lot : 25522-C  
Sample : 21215UKK\_1  
Latin Name: Hydrastis canadensis L. [Ranunculaceae]  
Reference Sample : M20109CRB Hydrastis canadensis L. [Ranunculaceae] authenticated by macroscopic, microscopic &/or TLC studies according to the reference sources cited below; held at Alkemist Labs, Garden Grove, CA.  
Analyst: E. Sudberg & I. Solorzano  
Magnification: (2) 400X  
Chemical Reagents: (2) acidified chloral hydrate glycerol solution  
Sample Findings: (2) starch granules  
Magnification: (3) 400X  
Chemical Reagents: (3) acidified chloral hydrate glycerol solution  
Sample Findings: (3) cork cells  
Reference Source: AHP Monograph: Goldenseal; Homeopathic Pharmacopoeia, 5th Supplement  
MIC-SOP-54-04, MIC-SOP-54-05, MIC-SOP-54-06, MIC-SOP-510-07

**Comments & Conclusions:** This sample has characteristics of *Hydrastis canadensis* L. [Ranunculaceae] rhizome and root based on comparison with an authenticated reference samples and the characteristics described in the references cited above. The characteristic cellular structures identified in this sample are the starch granules seen in micrograph (2) above. In micrograph (3) we see the cork cells. **This test sample, Goldenseal Root (25522-C), has characteristics of *Hydrastis canadensis* L. [Ranunculaceae] rhizome and root.**

**NOTE:** The presence of soluble excipients and other plant species material was not detected in this test sample.

Analyzed by: Iris Solorzano  
Examined, Reviewed & Authorized by: Élan M Sudberg, CEO

Report Date: 8/9/2021



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